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- (71) Applicant (for all designated States except US):

  VLAAMS INTERUNIVERSITAIR INSTITUUT

  VOOR BIOTECHNOLOGIE VZW [BE/BE]; Rijvisschestraat 120, B-9052 Zwijnaarde (BE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): EYCKERMAN, Sven [BE/BE]; Citadellaan 75, B-9000 Gent (BE). TAV-ERNIER, Jan [BE/BE]; Bottelweg 2, B-9860 Balegem (BE). VANDEKERCKHOVE, Joël [BE/BE]; Rode Beukendreef 27, B-8210 Loppem (BE).

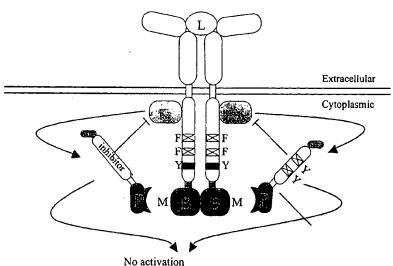
- (74) Common Representative: VLAAMS INTERUNIVER-SITAIR INSTITUUT VOOR BIOTECHNOLOGIE VZW; Rijvisschestraat 120, B-9052 Zwijnaarde (BE).
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#### Published:

··· with international search report

[Continued on next page]

(54) Title: REVERSED MAMMALIAN PROTEIN-PROTEIN INTERACTION TRAP



or induction of reporter/ selector gene

(57) Abstract: The present invention relates to a recombinant receptor, comprising a ligand-binding domain and a signaling domain that comprises a heterologous bait polypeptide, which receptor is inactivated by binding of a prey polypeptide to said heterologous bait peptide, either in presence or absence of a ligand binding to said ligand-binding domain. The receptor is activated by addition of a compound that disrupts the bait-prey interaction. The present invention also relates to a method to screen compounds that disrupt compound-compound-binding using said recombinant receptor.

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

Ir ional Application No
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earch terms used)
Relevant to claim No.
1-21
1-21
embers are listed in annex.
shed after the International filing date not in conflict with the application but the principle or theory underlying the ar relevance; the claimed invention ad novel or cannot be considered to step when the document is taken alone ar relevance; the claimed invention ad to involve an inventive step when the ned with one or more other such duculation being obvious to a person skilled of the same patent family
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Ini Ional Application No PCT/EP 02/07419

C.(Continue	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	RELEVANT	
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ernational application No. PCT/EP 02/07419

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
2. X Claims Nos.: 1-21 (part1ally) because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful international Search can be carried out, specifically:  see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of Invention is lacking (Continuation of Item 2 of first sheet)
This international Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1-21 (partially)

Present claims 1-21 relate to an extremely large number of possible recombinant receptors, and methods utilizing such polypeptides. In fact, the claims contain so many options, variables, possible permutations and provisos that a lack of clarity (and/or conciseness) within the meaning of Article 6 PCT arises to such an extent as to render a meaningful search of the claims impossible. Consequently, the search has been carried out for those parts of the application which do appear to be clear (and/or concise), namely claims 1-21 inasfar the claimed molecules relate to those exemplified in the application.

Additionally, present claims 1-21 relate to recombinant receptors, and methods utilizing such polypeptides defined by reference to a desirable characteristic or property, namely that the activation of the claimed polypeptides can be inhibited by binding of a prey polypeptide to a bait peptide.

The claims cover all receptors having this characteristic or property, whereas the application provides support within the meaning of Article 6 PCT and/or disclosure within the meaning of Article 5 PCT for only a very limited number of such receptors and methods.

In the present case, the claims so lack support, and the application so lacks disclosure, that a meaningful search over the whole of the claimed scope is impossible. Independent of the above reasoning, the claims also lack clarity (Article 6 PCT). An attempt is made to define the recombinant proteins by reference to a result to be achieved. Again, this lack of clarity in the present case is such as to render a meaningful search over the whole of the claimed scope impossible. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the molecules and methods exemplified in the application.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

\*information on patent family members

Int tional Application No PCT/EP 02/07419

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